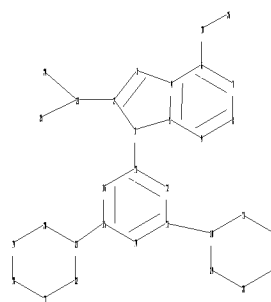
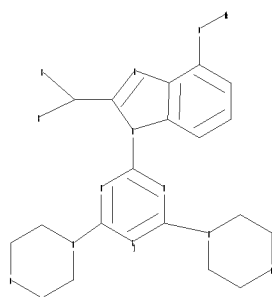


10/594,994



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chain nodes :
10 23 24 25 26
ring nodes :
1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 20 21 22 28 29
30 31 32 33
chain bonds :
1-11 2-23 6-10 10-26 13-30 15-21 23-24 23-25
ring bonds :
1-2 1-5 2-3 3-4 4-5 4-6 5-9 6-7 7-8 8-9 11-12 11-16 12-13 13-14 14-15
15-16 17-18 17-22 18-19 19-20 20-21 21-22 28-29 28-33 29-30 30-31 31-32
32-33
exact/norm bonds :
1-2 1-5 1-11 2-3 2-23 3-4 6-10 10-26 11-12 11-16 12-13 13-14 13-30
14-15 15-16 15-21 17-18 17-22 18-19 19-20 20-21 21-22 23-24 23-25 28-29
28-33 29-30 30-31 31-32 32-33
normalized bonds :
4-5 4-6 5-9 6-7 7-8 8-9
isolated ring systems :
containing 1 : 11 : 17 :
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EXR: Michael Barker

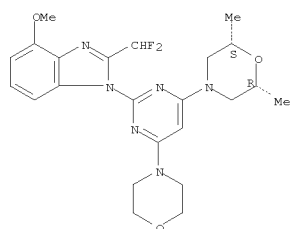
10/594,994

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:1176627 CAPLUS
 DOCUMENT NUMBER: 147:440304
 TITLE: Treatment of prostate cancer, melanoma or hepatic cancer
 INVENTOR(S): Yaguchi, Shinichi; Koshimizu, Ichiro; Yoshimi, Hisashi; Matsuno, Toshiyuki; Watanabe, Tetsuo; Tsuchida, Yoshio; Saitoh, Kenichi
 PATENT ASSIGNEE(S): Zenyaku Kogyo Kabushiki Kaisha, Japan
 SOURCE: U.S. Pat. Appl. Publ., 8pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070244110	A1	20071018	US 2006-404078	20060414
PRIORITY APPLN. INFO.:			US 2006-404078	20060414

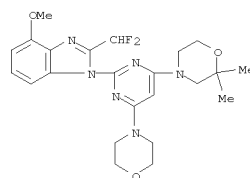
OTHER SOURCE(S): MARPAT 147:440304
 IT 866392-54-3P 866392-55-4P 952481-20-8P
 952481-22-0P 952481-23-1P 952481-24-2P
 RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (treatment of prostate cancer, melanoma or hepatic cancer)
 RN 866392-54-3 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

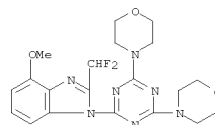


RN 866392-55-4 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,6-dimethyl-4-morpholinyl)-6-

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 (4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)



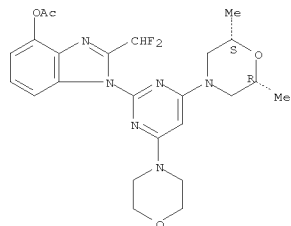
RN 952481-20-8 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-(4,6-di-4-morpholinyl-1,3,5-triazin-2-yl)-4-methoxy- (CA INDEX NAME)



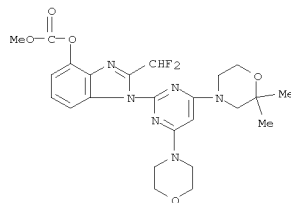
RN 952481-22-0 CAPLUS
 CN 1H-Benzimidazol-4-ol, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-, 4-acetate, rel- (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



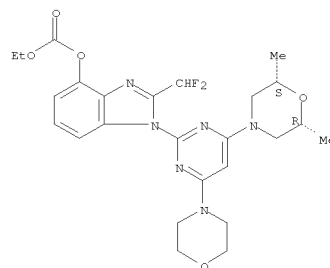
RN 952481-23-1 CAPLUS
 CN Carbonic acid, 2-(difluoromethyl)-1-[4-(2,6-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-1H-benzimidazol-4-yl methyl ester (CA INDEX NAME)



RN 952481-24-2 CAPLUS
 CN Carbonic acid, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-1H-benzimidazol-4-yl ethyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



EXR: Michael Barker

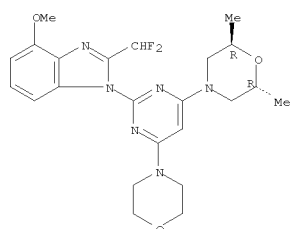
10/594,994

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:945639 CAPLUS
 DOCUMENT NUMBER: 145:328368
 TITLE: Immunosuppressive agent and anti-tumor agent comprising heterocyclic compound as active ingredient
 Haruta, Kazuhiko; Yaguchi, Shinichi; Matsuno, Toshiyuki; Tsuchida, Yoshio; Watanabe, Tetsuo; Yoshioka, Kimitomo; Yui, Ryogo
 INVENTOR(S): Zenyaku Kogyo Kabushikikaisha, Japan
 SOURCE: PCT Int. Appl., 102pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

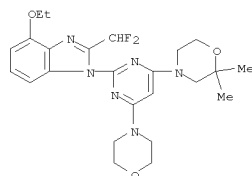
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006095906	A1	20060914	WO 2006-JP304937	20060313
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006221285	A1	20060914	AU 2006-221285	20060313
CA 2599879	A1	20060914	CA 2006-2599879	20060313
EP 1864665	A1	20071212	EP 2006-729002	20060313
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
US 20080113907	A1	20080515	US 2007-847593	20070830
IN 2007KN03220	A	20080104	IN 2007-KN3220	20070831
CN 101137382	A	20080305	CN 2006-80007888	20070911
KR 2007113285	A	20071128	KR 2007-723354	20071011
PRIORITY APPLN. INFO.:				
JP 2005-69255 A 20050311				
WO 2006-JP304937 W 20060313				
WO 2006-JP4937 A1 20060313				

OTHER SOURCE(S): MARPAT 145:328368
 IT 866392-55-4P 866392-56-5P 866392-57-6P
 866392-62-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (immunosuppressive agents and anti-tumor agents comprising heterocyclic compds.)

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

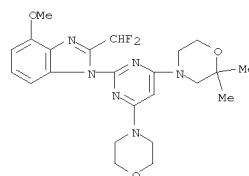


RN 866392-62-3 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-ethoxy- (CA INDEX NAME)



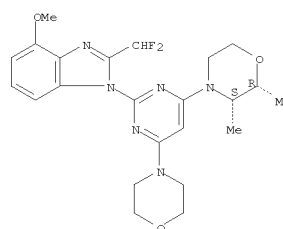
IT 909300-31-8
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (immunosuppressive agents and anti-tumor agents comprising heterocyclic compds.)
 RN 909300-31-8 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,6-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
 RN 866392-55-4 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)



RN 866392-56-5 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,3S)-2,3-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

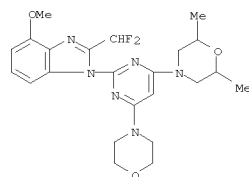
Relative stereochemistry.



RN 866392-57-6 CAPLUS
 CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6R)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD
 (9 CITINGS)
 REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

EXR: Michael Barker

10/594,994

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN **INSTANT**

ACCESSION NUMBER: 2005:1103774 CAPLUS
DOCUMENT NUMBER: 143:367324
TITLE: Preparation of
2-benzimidazolyl-4,6-dimorpholinylpyrimidine and
2-benzimidazolyl-4,6-dimorpholinyltriazine

derivatives

as antitumor agents
INVENTOR(S): Kawashima, Seilichiro; Matsuno, Toshiyuki; Yaguchi,
Shinichi; Tsuchida, Yoshio; Saitoh, Kenichi;
Watanabe,

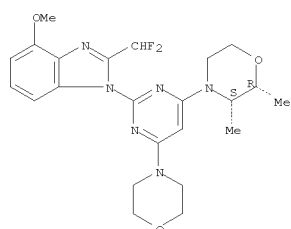
Tetsuo
PATENT ASSIGNEE(S): Zenyaku Kogyo Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005095389	A1	20051013	WO 2005-JP6111	20050330
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,				
ZW	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2005227954	A1	20051013	AU 2005-227954	20050330
CA 2561406	A1	20051013	CA 2005-2561406	20050330
EP 1741714	A1	20070110	EP 2005-727794	20050330
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1972935	A	20070530	CN 2005-80010215	20050330
KR 2007008670	A	20070117	KR 2006-722675	20061030
US 20080287431	A1	20081120	US 2007-594994	20070117
PRIORITY APPLN. INFO.:			JP 2004-103273	A 20040331
			WO 2005-JP6111	W 20050330

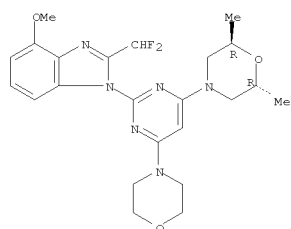
OTHER SOURCE(S): MARPAT 143:367324
IT 866392-54-3P 866392-55-4P 866392-56-5P
866392-57-6P 866392-58-7P 866392-59-8P
866392-60-1P 866392-61-2P 866392-62-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of
2-benzimidazolyl-4,6-dimorpholinylpyrimidine

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RN 866392-57-6 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6R)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

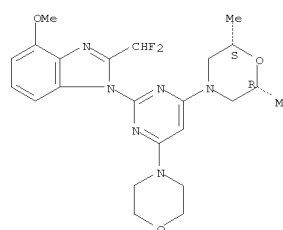


RN 866392-58-7 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4,6-di-4-morpholinyl-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)

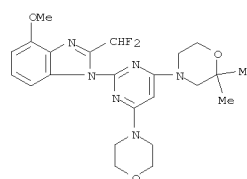
L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
and 2-benzimidazolyl-4,6-dimorpholinyltriazine derivs. as antitumor agents)

RN 866392-54-3 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.



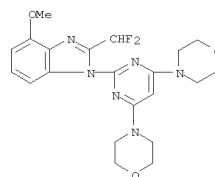
RN 866392-55-4 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy- (CA INDEX NAME)



RN 866392-56-5 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,3S)-2,3-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-2-pyrimidinyl]-4-methoxy-, rel- (CA INDEX NAME)

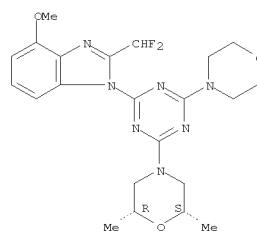
Relative stereochemistry.

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RN 866392-59-8 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-[(2R,6S)-2,6-dimethyl-4-morpholinyl]-6-(4-morpholinyl)-1,3,5-triazin-2-yl]-4-methoxy-, rel- (CA INDEX NAME)

Relative stereochemistry.

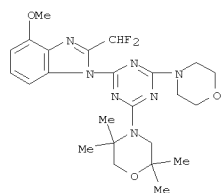


RN 866392-60-1 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-4-methoxy-1-[4-(4-morpholinyl)-6-(2,2,5,5-tetramethyl-4-morpholinyl)-1,3,5-triazin-2-yl]- (CA INDEX NAME)

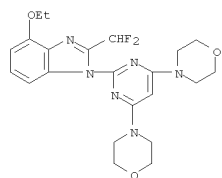
EXR: Michael Barker

10/594,994

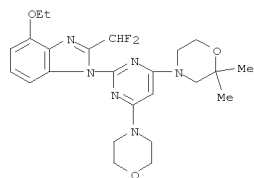
L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)



RN 866392-61-2 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[(4,6-di-4-morpholinyl-2-pyrimidinyl)-4-ethoxy]- (CA INDEX NAME)



RN 866392-62-3 CAPLUS
CN 1H-Benzimidazole, 2-(difluoromethyl)-1-[4-(2,2-dimethyl-4-morpholinyl)-6-(4-morpholinyl)-2-pyrimidinyl]-4-ethoxy- (CA INDEX NAME)



L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

EXR: Michael Barker